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Technology Rich Environments

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## Supporting Digital Problem Solving

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# Supporting Digital Problem Solving

Tyler H.J. Frank

What does digital problem solving look like?

# What I used to think about problem solving...

1

Understand the problem

2

Come up with a plan

3

Enact the plan

4

Think about what you  
learned

# Strategies we saw in digital problem solving

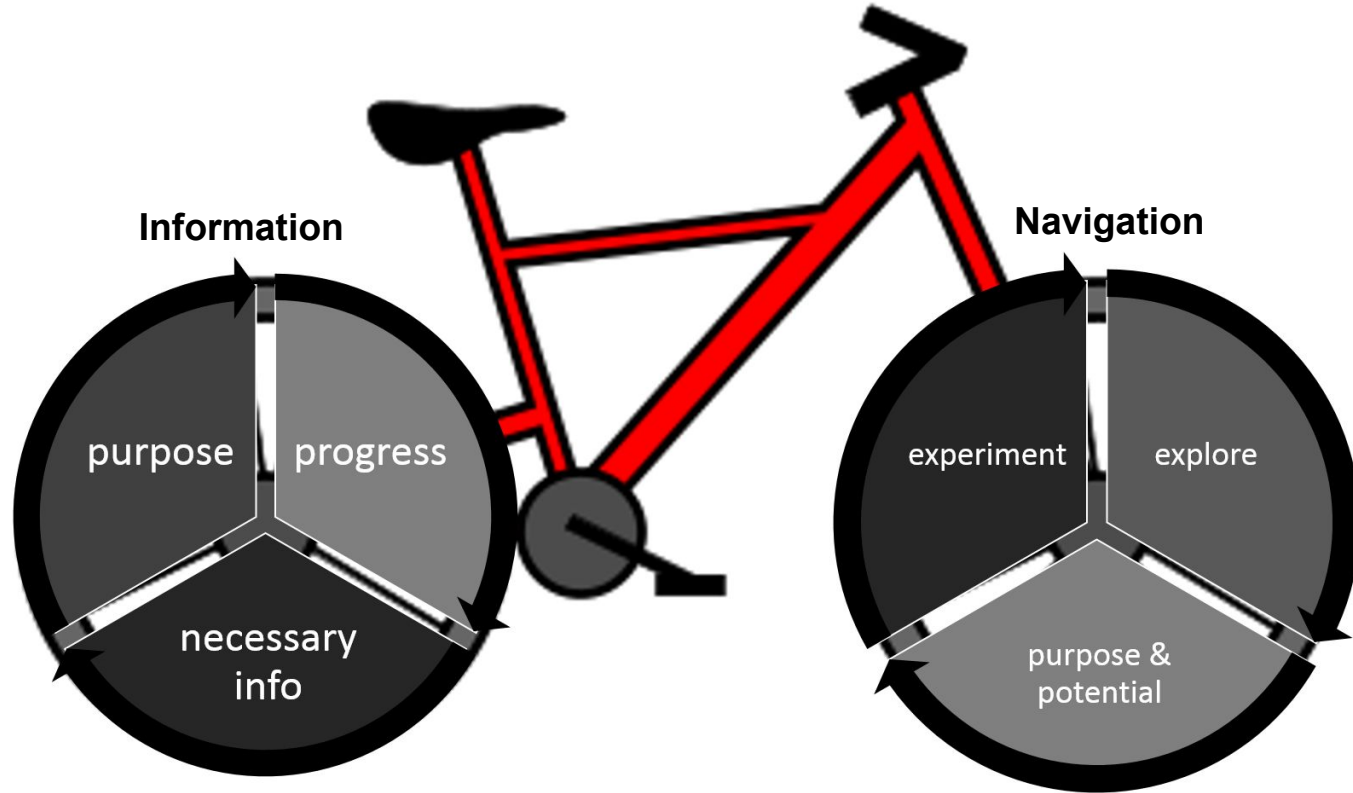
## INFORMATION

- Identify and clarify purpose
- Check and recheck progress
- Consider necessary info

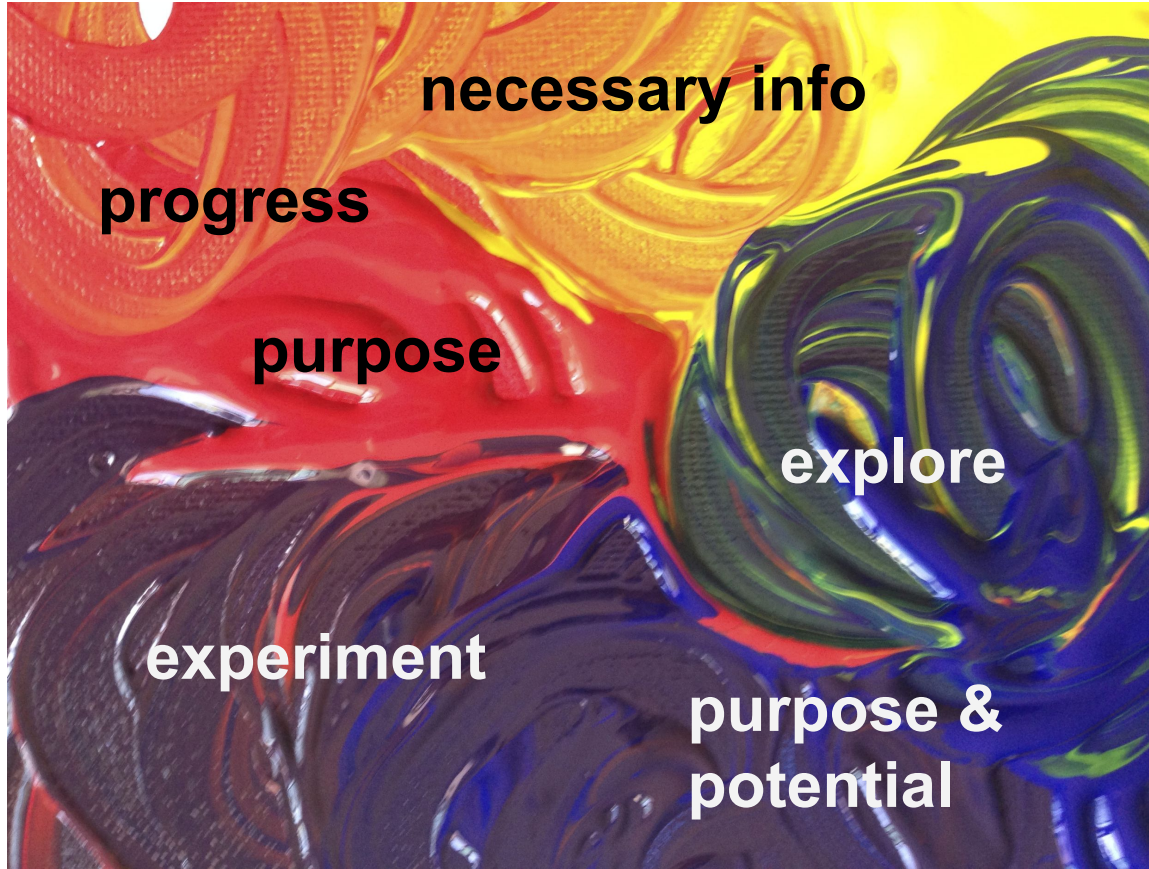
## NAVIGATION

- Explore interfaces
- Experiment with tools
- Identify purpose and potential of tools and interfaces

# The Digital Problem Solving Cycle



# Fluidity of Digital Problem Solving



# How do we support digital problem solving?

Digital Problem Solving is a complex, flexible process, therefore...

- There is NO one size that fits all.
- New practices must build on practices learners already have.
- Instruction needs to be personally meaningful to the learner.
- Learners need easy access to technology, high speed internet, and education.